VTEKE®

SAMPLE EDITION

Converters — Sample edition

Category catalog · 2026 — built from the product data VTEKE maintain for the website, to show how the catalog downloads. The official catalog will replace it.

8	1	2026
Products	Category	Edition



Category catalog · 2026

Converters

8 products · Battery Chargers · Power Supplies · Current Transducers · Voltage Transducers

Battery Chargers



REPRESENTATIVE IMAGE

VBC 140W

140 W Battery Charger

The VTEKE 140 W Battery Charger is designed for charging lead-acid engine starter and AGM batteries. Based on switch-mode power supply technology, it provides reliable battery charging with a wide input voltage range and integrated protection features.

KEY FEATURES

- Suitable for lead-acid engine starter and AGM batteries
- Switch-mode power supply technology
- Wide AC and DC input voltage range
- High efficiency
- Reverse polarity protection
- Input failure and blown fuse alarm
- Input noise filter
- Fail/Work LED indicator
- Compact and lightweight design

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	220 V AC ±20%
DC Input Voltage	200–400 V DC
AC Input Frequency	50–400 Hz
Efficiency	>82% / >85%
OUTPUT CHARACTERISTICS	
DC Output Voltage	13.80 V / 27.60 V
DC Output Charge Current	10 A / 5 A
Output Power	140 W
Output Voltage Ripple	±1%
Voltage Regulation	±1%
Load Regulation	±1%
Start-up Time	100 ms
AVAILABLE CONFIGURATIONS	
Configuration 1	13.80 V / 10 A (VBC1210)
Configuration 2	27.60 V / 5 A (VBC2405)
OPERATING CONDITIONS	
Working Temperature	-20°C to +50°C
Working Humidity	20–70%
Storage Temperature	-20°C to +70°C

MECHANICAL SPECIFICATIONS	
Weight	700 g
Dimensions (L × W × H)	153 × 98 × 62 mm
Mounting	Screw Type / DIN Rail



REPRESENTATIVE IMAGE

VBC 175W

175 W Battery Charger

The VTEKE VBC-A05 Battery Charger is designed for charging 12 V and 24 V battery systems with automatic output voltage selection. Featuring integrated short-circuit, overload, reverse polarity and temperature protection, the charger provides reliable operation for industrial battery charging applications.

KEY FEATURES

- Automatic 12 V / 24 V output voltage selection
- Reverse battery connection protection
- Output short-circuit protection
- Overload protection
- High-temperature protection
- LED operating status indication
- High-efficiency charging performance
- Compact industrial design

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	150–270 V AC
DC Input Voltage	150–270 V DC
Input Current	Max. 0.87 A
Maximum Input Power	175 W
AC Input Frequency	45–78 Hz
Efficiency	>85%
OUTPUT CHARACTERISTICS	
DC Output Voltage	13.8–27.6 V DC (automatic selection)
DC Output Charging Current	5.0 A DC
Maximum Continuous Output Power	160 W
Output Ripple	<0.5% of Vo (peak-to-peak)
Load Regulation	<0.5% of Vo
Line Regulation	<0.01% of Vo
Warm-up Voltage Variation	<0.5% of Vo
Load Change Overshoot	<2% of Vo (100% to 0% load change)
Start-up Time	5 s
PROTECTION CHARACTERISTICS	
Reverse Battery Connection Protection	Integrated
Overload Protection	Output current limited to 6 A
Short-Circuit Protection	Output current limited to 6 A
High-Temperature Protection	Internal temperature limited to 85°C
Isolation Voltage	2 kV AC
LED Status Indication	Integrated

OPERATING CONDITIONS	
Maximum Temperature	75°C
Ambient Temperature Range	-30°C to +55°C
Storage Temperature Range	-30°C to +80°C
Maximum Relative Humidity	0.95
Protection Degree	IP20
MECHANICAL SPECIFICATIONS	
Model	VBC-A05
Output System	12 V / 24 V DC
Output Selection	Automatic
Dimensions	Refer to dimensional drawing



REPRESENTATIVE IMAGE

VBC 275W

275 W Battery Charger

The VTEKE 275 W Battery Charger is a microcontroller-controlled battery charger designed for 24 V battery systems. Its microcontroller manages charging operations and integrated protection functions to support reliable performance and extended product life. The series is available in plate-mounted (VBC2410) and DIN rail-mounted (VBC2410D) versions.

KEY FEATURES

- Microcontroller-controlled charging system
- High-efficiency switch-mode power supply technology
- Wide AC and DC input voltage range
- Temperature protection
- Short-circuit protection
- Automatic current reduction at elevated temperatures
- Reverse battery connection protection
- Input fuse protection and fault detection
- LED operating and fault indication
- Plate mounting or DIN rail mounting options

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	185–270 V AC
DC Input Voltage	250–390 V DC
AC Input Frequency	50–400 Hz
Efficiency	>85%
OUTPUT CHARACTERISTICS	
Battery System	24 V DC
DC Output Voltage	27.6 V DC
Rated Charging Current	10A
Output Power	275 W
Output Voltage Ripple	±1%
Voltage Regulation	±1%
Load Regulation	±1%
Start-up Time	100 ms
PROTECTION CHARACTERISTICS	
Input Protection	5 A fuse
Output Short-Circuit Protection	Electronic protection; continuous short-circuit operation
Short-Circuit Current Limit	15 A

Reverse Battery Connection Protection	Operation can be restored by replacing the output fuse
Temperature Protection	Integrated
Thermal Derating	Charging current reduction from 10 A to 5 A at elevated temperatures
LED Indication	Green: Normal operation; Red: Connection fault
OPERATING CONDITIONS	
Working Temperature	-20°C to +55°C
Working Humidity	20–70%
Storage Temperature	-20°C to +70°C
MECHANICAL & GENERAL CHARACTERISTICS	
Mounting — VBC2410	Plate mounting
Mounting — VBC2410D	DIN rail mounting
Power Conversion Method	Switch-Mode Power Supply (SMPS)
Switching Frequency	100 kHz



REPRESENTATIVE IMAGE

VBC 70W

70 W Battery Charger

The VTEKE 70 W Battery Charger is designed for charging lead-acid engine starter and AGM batteries. Based on switch-mode power supply technology, it provides reliable battery charging with a wide input voltage range and integrated protection features.

KEY FEATURES

- Suitable for lead-acid engine starter and AGM batteries
- Switch-mode power supply technology
- Wide AC and DC input voltage range
- High efficiency
- Reverse polarity protection
- Input failure and blown fuse alarm
- Input noise filter
- Fail/Work LED indicator
- Compact and lightweight design

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	220 V AC ±20%
DC Input Voltage	200–400 V DC
AC Input Frequency	50–400 Hz
Efficiency	>85%
OUTPUT CHARACTERISTICS	
DC Output Voltage	13.80 V / 34.5 V
DC Output Charge Current	5 A / 2.2 A
Output Power	70 W
Output Voltage Ripple	±1%
Voltage Regulation	±1%
Load Regulation	±1%
Start-up Time	100 ms
AVAILABLE CONFIGURATIONS	
Configuration 1	13.80 V / 5 A (VBC1205)
Configuration 2	34.5 V / 2.2 A (VBC3002)

OPERATING CONDITIONS	
Working Temperature	-20°C to +50°C
Working Humidity	20–70%
Storage Temperature	-20°C to +70°C
MECHANICAL SPECIFICATIONS	
Weight	700 g
Dimensions (L × W × H)	153 × 98 × 62 mm
Mounting	Screw Type / DIN Rail

Power Supplies



REPRESENTATIVE IMAGE

PSU 140W

140 W Power Supply Unit

The VTEKE 140 W PSU Series consists of switch-mode power supply units designed to convert AC input voltage into regulated DC power for industrial electrical equipment. Featuring a wide input voltage range, electronic short-circuit protection and overvoltage protection, the series provides a practical solution for industrial control and automation applications.

KEY FEATURES

- Switch-mode power supply (SMPS) technology
- Wide AC input voltage range
- Regulated DC output
- Electronic short-circuit protection
- Output overvoltage protection
- Adjustable output voltage
- LED operating status indication
- DIN rail mounting
- Compact design for industrial control panels

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	85–265 V AC
DC Input Voltage	120–400 V DC
AC Input Frequency	50–60 Hz
Efficiency	>80%
OUTPUT CHARACTERISTICS	
DC Output Voltage	5 V / 12 V / 24 V DC
Rated Output Current	12 A / 12 A / 6 A
Output Voltage Ripple	±1%
Output Voltage Adjustment	±10%
Voltage Regulation	±1%
Load Regulation	±1%
Start-up Time	100 ms
Output Short-Circuit Protection	Electronic protection
Short-Circuit Operation	Continuous operation under short-circuit conditions
Output Overvoltage Protection	Integrated
Overvoltage Protection Level	33 V / 1000 W peak TVS
LED Indication	Green: Normal operation

OPERATING CONDITIONS	
Working Temperature	-20°C to +50°C
Working Humidity	20–70%
Storage Temperature	-20°C to +70°C
MECHANICAL & GENERAL CHARACTERISTICS	
Power Conversion Method	Switch-Mode Power Supply (SMPS)
Switching Frequency	67 kHz
Mounting	DIN rail



REPRESENTATIVE IMAGE

PSU 70W

70 W Power Supply Unit

The VTEKE 70 W PSU Series consists of switch-mode power supply units designed to convert AC input voltage into regulated DC power for industrial electrical equipment. Featuring a wide input voltage range, electronic short-circuit protection and overvoltage protection, the series provides a practical solution for industrial control and automation applications.

KEY FEATURES

- Switch-mode power supply (SMPS) technology
- Wide AC input voltage range
- Regulated DC output
- Electronic short-circuit protection
- Output overvoltage protection
- Adjustable output voltage
- LED operating status indication
- DIN rail mounting
- Compact design for industrial control panels

SPECIFICATIONS

INPUT CHARACTERISTICS	
AC Input Voltage	85–265 V AC
DC Input Voltage	120–400 V DC
AC Input Frequency	50–60 Hz
Efficiency	>80%
OUTPUT CHARACTERISTICS	
DC Output Voltage	5 V / 12 V / 24 V DC
Rated Output Current	5 A / 5 A / 3 A
Output Voltage Ripple	±1%
Output Voltage Adjustment	±10%
Voltage Regulation	±1%
Load Regulation	±1%
Start-up Time	100 ms
PROTECTION CHARACTERISTICS	
Input Protection	3 A fuse
Output Short-Circuit Protection	Electronic protection
Short-Circuit Operation	Continuous operation under short-circuit conditions
Output Overvoltage Protection	Integrated
Overvoltage Protection Level	33 V / 1000 W peak TVS
LED Indication	Green: Normal operation

OPERATING CONDITIONS	
Working Temperature	20°C to +50°C (as printed; verify lower limit)
Working Humidity	20–70%
Storage Temperature	-20°C to +70°C
MECHANICAL & GENERAL CHARACTERISTICS	
Power Conversion Method	Switch-Mode Power Supply (SMPS)
Switching Frequency	67 kHz
Mounting	DIN rail

Current Transducers



REPRESENTATIVE IMAGE

CT

CT Series — Single-Phase Current Transducer

The VTEKE CT Series consists of single-phase True RMS current transducers designed to convert the AC current signal from a current transformer into a proportional DC analog output. The series provides current measurement for industrial monitoring and control applications, with multiple analog output configurations and AC or DC auxiliary supply options.

KEY FEATURES

- True RMS current measurement
- Conversion of AC current into proportional DC analog signals
- Current input options of 0–1 A AC and 0–5 A AC
- Multiple analog current and voltage output options
- AC and DC auxiliary power supply versions
- Galvanic isolation on AC-powered models
- LED operating status indication
- DIN rail mounting

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Auxiliary Supply — DC Model	24 V DC (9–34 V DC)
Auxiliary Supply — AC Model	220 V AC (85–280 V AC)
Galvanic Isolation — DC Model	Not isolated
Galvanic Isolation — AC Model	1.5 kV isolation, 3.0 kV withstand
Max. Power Consumption — DC Model	1 W (35 mA) at 24 V DC
Max. Power Consumption — AC Model	2 W (20 mA) at 115 V AC / 3 W (15 mA) at 230 V AC
MEASUREMENT CHARACTERISTICS	
Measurement Method	True RMS
Input Current Range	0–1 A AC / 0–5 A AC
Continuous Overload Current	10 A AC
Input Signal Frequency	40–100 Hz
Sampling Frequency	31 kHz (typical)
Conversion Accuracy	Max. 1.0% error at nominal current, 25°C

Response Time	100 ms (typical)
OUTPUT CHARACTERISTICS	
Analog Current Output	4–20 mA / 0–20 mA
Analog Voltage Output	0–5 V / 0–10 V / 1–5 V / 2–10 V
Max. Output Load — Current Output	700 Ω at 24 V DC supply
Min. Output Load — Voltage Output	10 Ω (verify)
Output Load Error	Max. 5% error (datasheet wording; verify)
OPERATING CONDITIONS	
Operating Temperature	-10°C to +60°C
MECHANICAL CHARACTERISTICS	
Mounting	DIN rail

Voltage Transducers



REPRESENTATIVE IMAGE

VT

VT Series — Single-Phase Voltage Transducer

The VTEKE VT Series consists of single-phase True RMS voltage transducers designed to convert AC voltage signals into proportional DC analog outputs. The series provides voltage measurement for industrial monitoring and control applications, with multiple analog output configurations and AC or DC auxiliary supply options.

KEY FEATURES

- True RMS voltage measurement
- Conversion of AC voltage into proportional DC analog signals
- Multiple voltage input ranges
- Current and voltage analog output options
- AC and DC auxiliary power supply versions
- Galvanic isolation on AC-powered models
- LED operating status indication
- DIN rail mounting

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Auxiliary Supply — DC Model	24 V DC (9–34 V DC)
Auxiliary Supply — AC Model	220 V AC (85–280 V AC)
Galvanic Isolation — DC Model	Not isolated
Galvanic Isolation — AC Model	1.5 kV isolation, 3.0 kV withstand
Max. Power Consumption — DC Model	1 W (35 mA) at 24 V DC
Max. Power Consumption — AC Model	2 W (20 mA) at 115 V AC / 3 W (15 mA) at 230 V AC
MEASUREMENT CHARACTERISTICS	
Measurement Method	True RMS
Input Voltage Range	0–24 V AC / 0–500 V AC / Customized
Continuous Overload Current	10 A AC (verify)

Input Signal Frequency	40–100 Hz
Sampling Frequency	31 kHz (typical)
Conversion Accuracy	Max. 1.0% error at nominal input, 25°C
Response Time	100 ms (typical)
OUTPUT CHARACTERISTICS	
Analog Current Output	4–20 mA / 0–20 mA
Analog Voltage Output	0–5 V / 0–10 V / 1–5 V / 2–10 V
Max. Output Load — Current Output	700 Ω at 24 V DC supply
Min. Output Load — Voltage Output	10 Ω (verify)
Output Load Error	Max. 5% error (datasheet wording; verify)
OPERATING CONDITIONS	
Operating Temperature	-10°C to +60°C
MECHANICAL CHARACTERISTICS	
Mounting	DIN rail
Dimensions	Refer to dimensional drawing